

FIG. 1

SELECT A LARGE PRIME p , AND
GROUPS G_1 AND G_2 OF ORDER p THAT ARE
EQUIPPED WITH A BILINEAR PAIRING e

SUCH THAT $e: G_1 \times G_1 \rightarrow G_2$

(E.G., SELECT AN APPROPRIATE CURVE E
OVER A FIELD F_q SUCH THAT

$E(F_q)$ HAS A SUBGROUP G_1 OF ORDER p ,

WHERE e IS THE TATE OR WEIL PAIRING

FROM $G_1 \times G_1$ TO A GROUP G_2 OF ORDER p)

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SELECT A GENERATOR $g \in G_1$

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CONSTRUCT A DESCRIPTION OF
 p , e , G_1 , G_2 , AND g

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FIG. 2

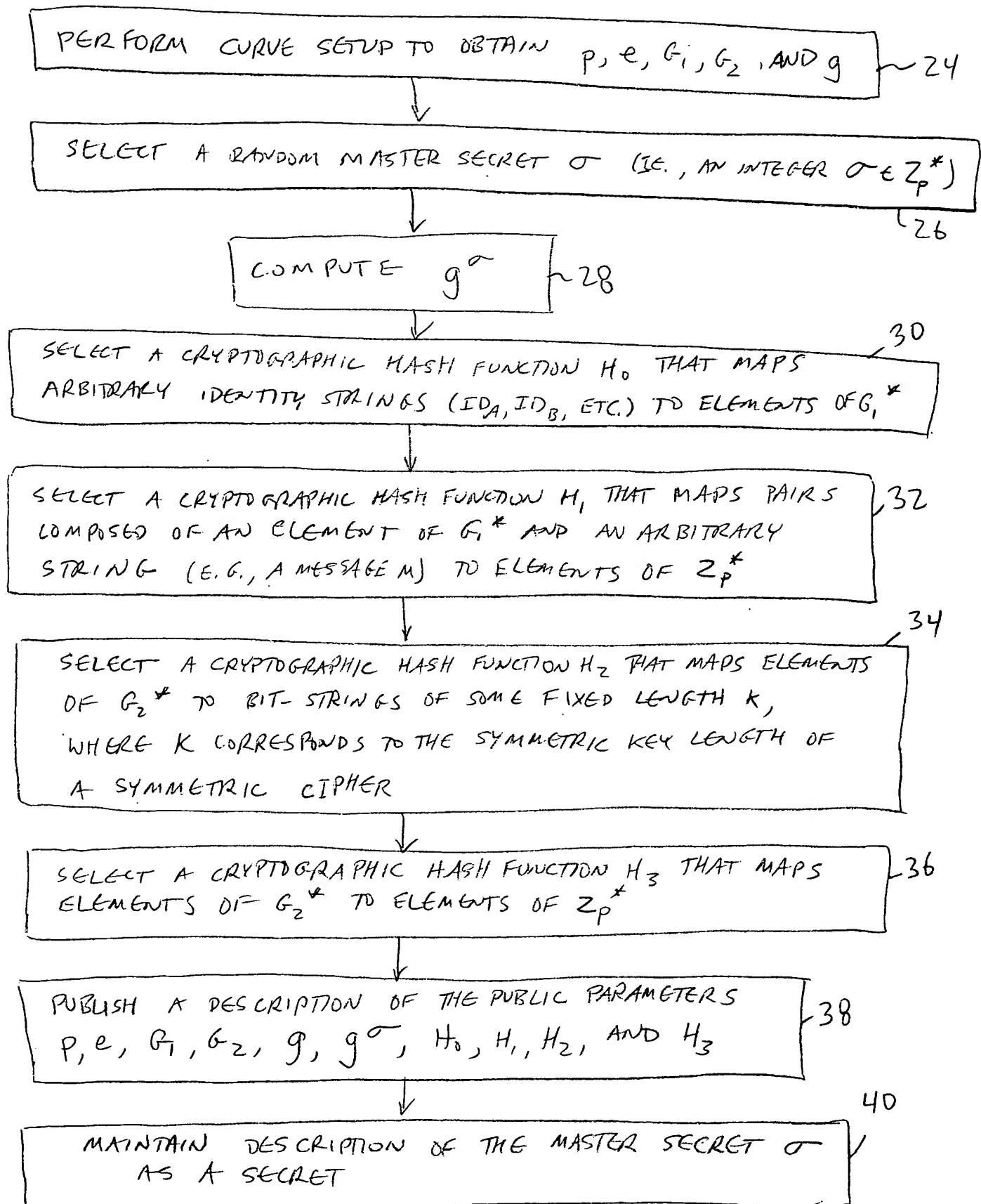


FIG. 3

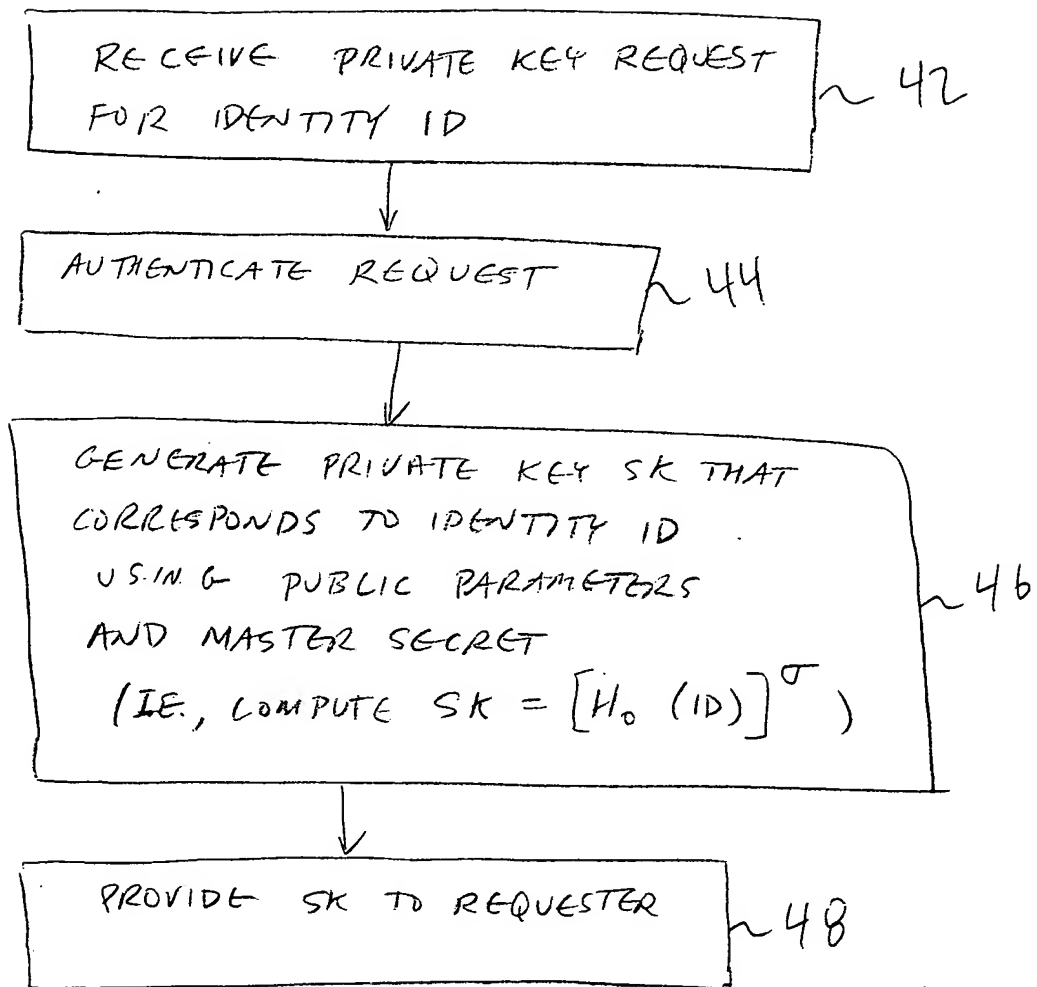


FIG. 4

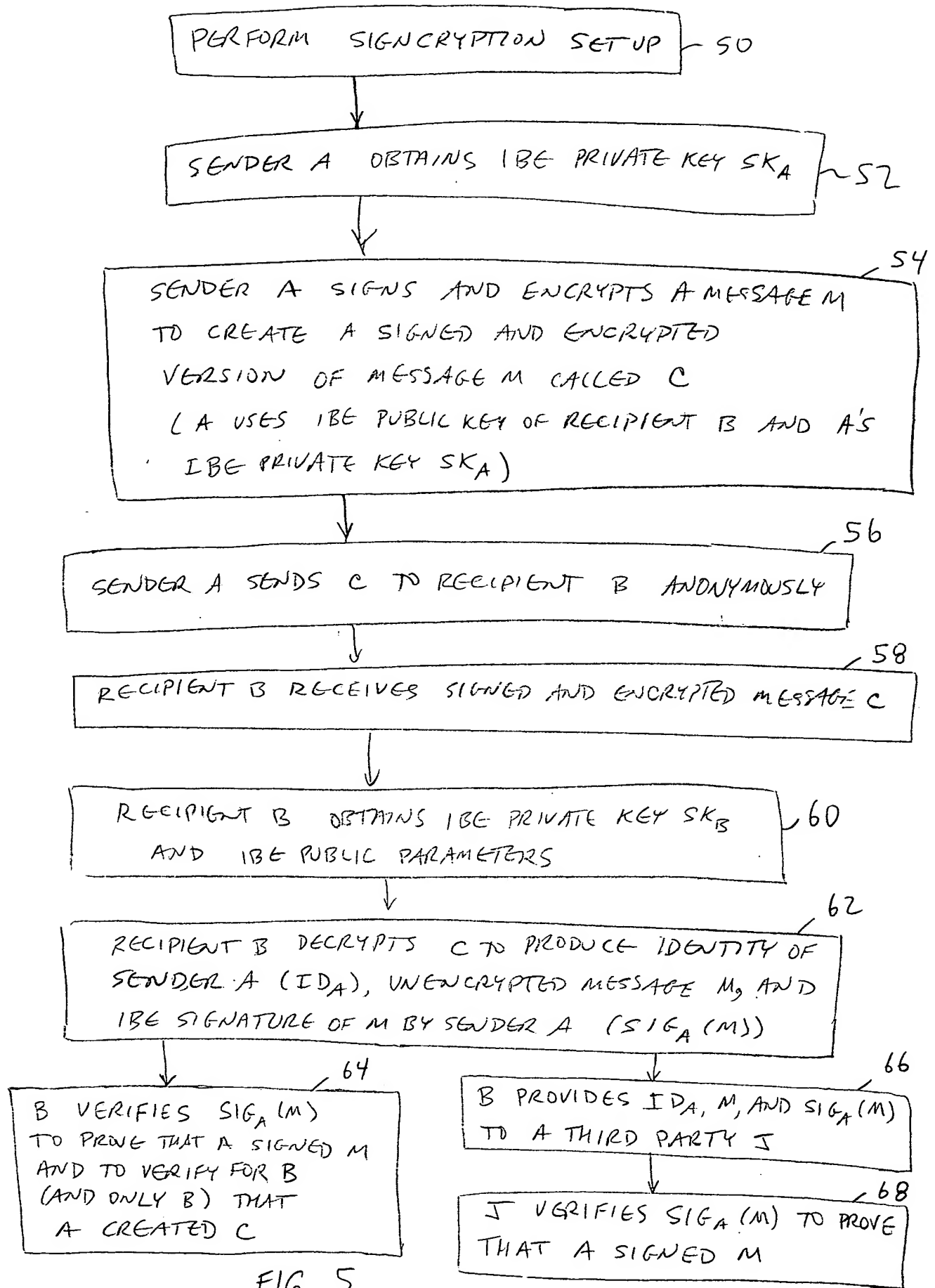
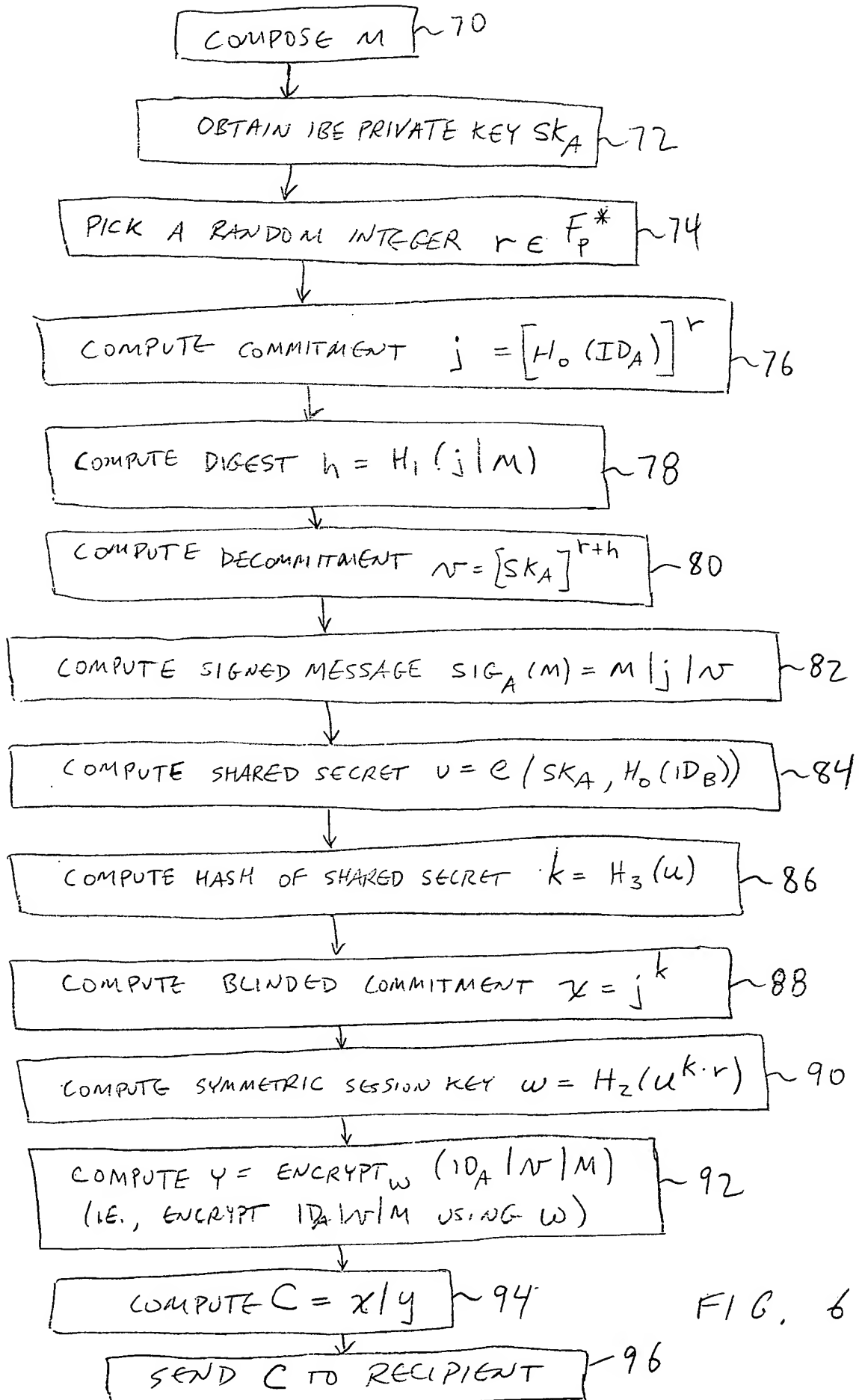


FIG. 5



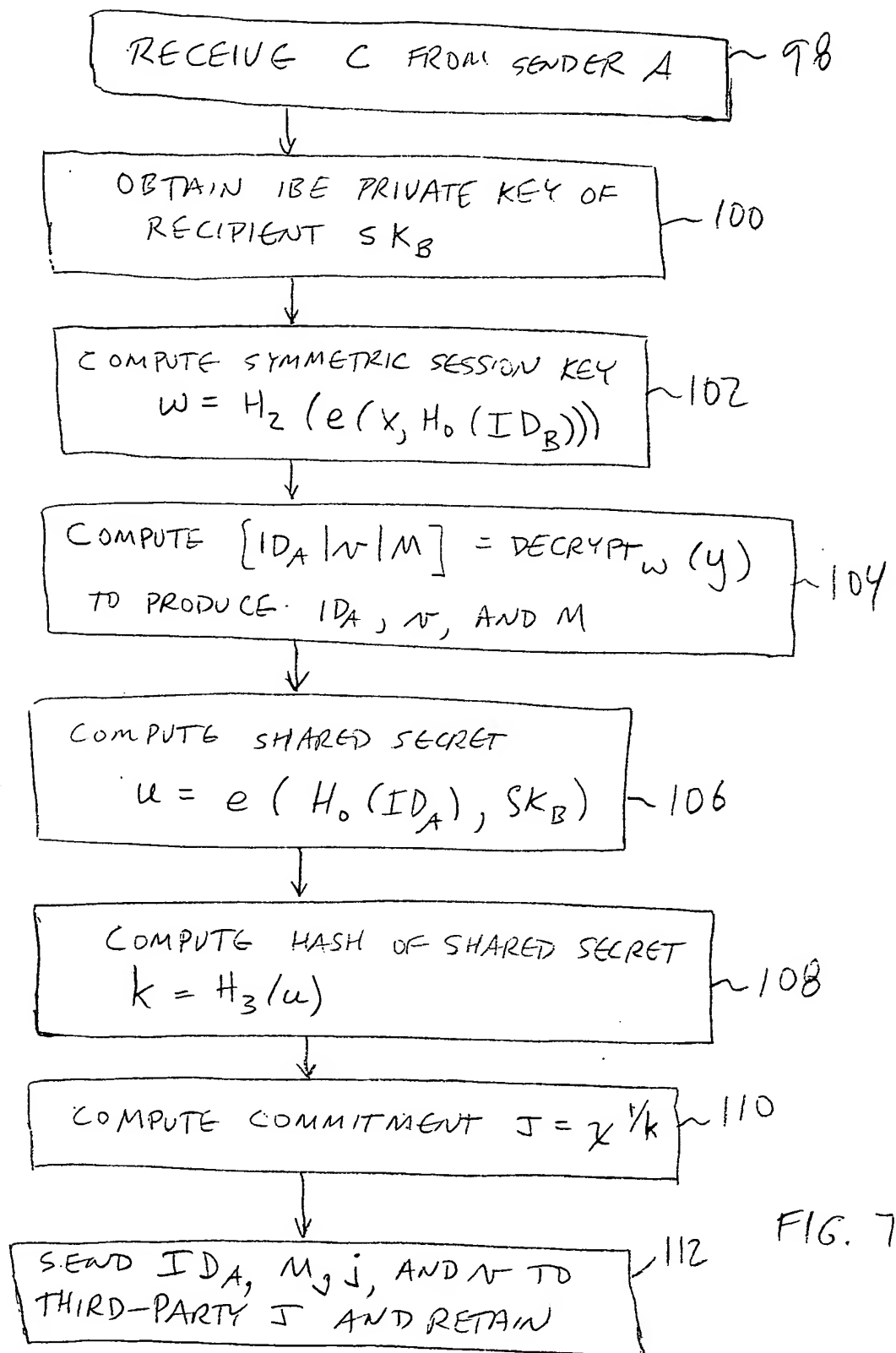


FIG. 7

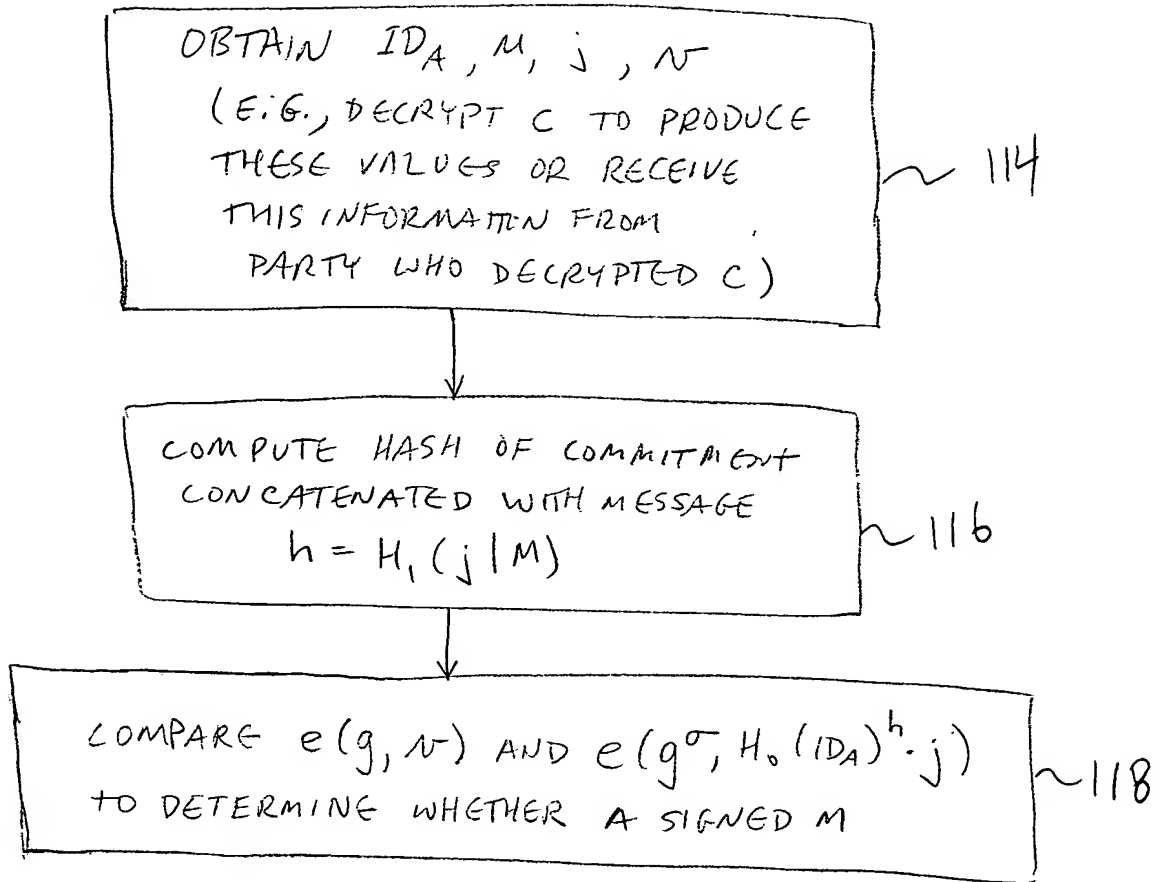


FIG. 8